NC/QC/YPD/SIP-05/2017-18/SP-CB3

Date: 26-03-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements Road and Drain at Srinivasapura in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-03-18	26-03-18	07	22500	410	18.22	**17.93**
	002	"	"	"	"	405	18.00	
	003	"	"	"	"	395	17.56	

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NC/QC/YPD/SIP-05/2018-19/SP-CB1A

Date: 13-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements Road and Drain at Srinivasapura in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressiye Strength (N/mm^2)	Avg. Value
1	001	16-03-18	13-04-18	28	22500	510	22.67	**22.67**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	505	22.44	

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NC/QC/YPD/SIP-05/2018-19/SP-CB2A

Date: 16-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements Road and Drain at Srinivasapura in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-03-18	16-04-18	30	22500	520	23.11	**23.41**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	535	23.78	

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NC/QC/YPD/SIP-05/2018-19/SP-CB3A

Date: 16-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements Road and Drain at Srinivasapura in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-03-18	16-04-18	28	22500	525	23.33	**22.96**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	510	22.67	

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NC/QC/YPD/SIP-05/2017-18/SP-G1

Date: 26-03-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvements Road and Drain at Srinivasapura in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

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TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
26.50	**96.45**	70-100
9.50	**72.15**	50-80
4.75	**58.60**	40-65
2.36	**39.40**	30-50
0.425	**12.20**	10-15
0.075	**4.35**	<5

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Date: 26-03-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.37%**	Not more than 2.0 %
2.	Liquid Limit, %	**18.32**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.13**	----------
5.	Aggregate Impact Value, %	**25.46**	Not more than 40.00 %

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NC/QC/YPD/SIP-05/2017-18/SP-C4 Date: 29-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements Road and Drain at Srinivasapura in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

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PHYSICAL TESTS ON CEMENT

Brand : ULTRA TECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**154 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.24 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**28.68 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/SIP-05/2017-18/SP-PCC3 Date: 29-03-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements Road and Drain at Srinivasapura in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	68.45	0 -20	30- 70
10mm	16.20	0 -5	10- 35
4.75mm	3.85	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.20	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.60	60-95	75-100	85-100	
01.18	72.00	30-70	55-90	75-100	
600.mic	51.30	15-34	35-59	60-79	
300.mic	19.60	5-20	8-30	12-40	
150.mic	8.25	0-10	0-10	0-10	

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NC/QC/YPD/SIP-05/2017-18/SP-C5

Date: 31-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements Road and Drain at Srinivasapura in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ULTRA TECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**149 min**	Shall not be less than 30 min
2	Final setting time	**264 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.19 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.03 mm**	Shall not be more than 10 mm
5	Compressive strength d) 3 days (average of three results)	**28.96 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/SIP-05/2017-18/SP-PCC4

Date: 31-03-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements Road and Drain at Srinivasapura in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.30	0 -20	30- 70
10mm	19.10	0 -5	10- 35
4.75mm	3.75	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.75	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	89.25	60-95	75-100	85-100	
01.18	72.10	30-70	55-90	75-100	
600.mic	48.35	15-34	35-59	60-79	
300.mic	18.20	5-20	8-30	12-40	
150.mic	8.40	0-10	0-10	0-10	

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NC/QC/YPD/SIP-05/2018-19/SP-C6

Date: 03-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements Road and Drain at Srinivasapura in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ULTRA TECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**272 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.18%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09 mm**	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results)	**28.19 N/Sq mm**	Shall not be less than 27 N/Sqmm

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